Field Service Bulletin No. 24

Order No.: DD+DIS141.02E

1 piece U7M77 MA1

ADC Solo
Type 5155 / 100

Centricity CR SP1001
Type 5155 / 200

Rating			When?		
safety relevant	reliability	new function	immediately	next service	as required
		X		X	

Please file this document in section 13 of your technical documentation ADC Solo

New Software SOL_1407 available

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1 Upgrade Information

The upgrade to SOL_1407 is a must-modification, because it increases galvo life time (see, What is new in SOL_1407)

2 Order number

Device Software SOL_1407: CM+9.5155.1055.0

3 Download from MedNet

Device Software SOL_1407 can be downloaded from MedNet as follows:

(1) Open your browser and go to the MedNet CSO Library

(2) Select
`Computed Radiology`
`ADC Solo`
`CSO Freeware`

(3) Select
`ADC Solo Device Software SOL1407`

(4) Download the attachment file Device Software SOL1407.zip

(5) Unzip Device Software 1407.zip

(6) Copy the following directories to one floppy each and label them as described below:

Disk name:	Label name:
disk1	→ SOL1407_1_3
disk2	→ SOL1407_2_3
disk3	→ SOL1407_3_3
harddisk formatter	→ no label

How to label a floppy disk:

1. Insert floppy in floppy drive of PC and select floppy drive in Explorer
2. Click right mouse button and select Properties
3. Select tab General and enter required label name

4 What is new in SOL_1407

Direct ID Mode Now Can be Explicitly Switched Off
Direct ID configuration has been enhanced and offers an additional selection <None> to switch off the Direct ID mode.

Support of Advanced Scanner Module
New scanner mechanics with increased scan rolls pressure require a stronger stepper motor. The software is able to handle both motors. The default configuration is 'Old Small Motor'. The change to 'New Big Motor' is done in production with SSCTEST -> Configurations.

New Service Menu Entry for Replacement of Complete Scanner
A new menu entry has been added to install all necessary parameters for a complete scanner:
Service -> Install from Floppy -> 11 Complete Scanner.

Fast Unclamping of Cassettes
Small and medium sized cassettes are unclamped with higher speed to avoid movement of cassettes and in consequence cassette jams.

Reopen of 15CMX30CM Format
If cassette detection switch on clamping becomes free while taking IP out of cassette, cassette is closed, re-clamped and reopened before return of IP.

New Curves for Roll, Belt and Transport Motor
New run-up curves for some stepper motors:

- Cassette transport roll in cassette unit.
- Cassette unit belt.
- IP transport unit.

New Firmware for Stepper Motor Controllers
The new SINSTEP firmware SM5_1113.hex is now loaded to all stepper motor nodes.

Modified Stand-By Behavior of the Galvanometer for a Longer Lifetime
The galvanometer is now set to amplitude 0 immediately after scan to prolong its lifetime.

40 cycles clearing sweep before scan, if amplitude was 0 for more than 45 seconds.

The power for the galvanometer control unit is switched off after one hour stand-by, as before.

Module Working Time in Info Counters
The working time of the laser diode and the photomultiplier as well as the working cycles of the galvanometer are stored in the info counters now. The date of the first entry is stored as well.

At replacement of one of these parts, the referring counter is reset and its old value written to the hardware replacement history.

Now Checking Laser for “Always On”

A few spare-part laser modules may have left the factory with a wrong setting of the jumper J1 on the laser control board inside the laser module. This jumper switches the laser to constant on, which is needed during production, but which reduces the laser lifetime at the installed system.

The old software could not detect this problem during self-test.

The new software tests for that problem during its start-up self-test. It does not display an error, but makes an entry to the warning table of the info counters.

Improved Algorithm for Compensation of I/V Converter Signal

The compensation of the I/V converter offset has been improved. Now there is one additional iteration step and the previously calculated value is taken into account (same as ADCC+).

The limit for generating the warning 20C46 was increased from ±10mV to ±20mV.